

Eltex® PF6812AA

Metallocene Linear Low Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

ELTEX® PF6812AA is a metallocene LLDPE resin produced in Europe

Benefits & Features

ELTEX® PF6812AA is a polyethylene copolymer containing hexene-1 as the comonomer produced with a metallocene catalyst. It offers the following properties:

- High stiffness
- Good creep resistance
- Excellent balance between impact resistance and rigidity
- Very good bubble stability and easy extrudability during blown film extrusion
- Good optical properties
- Very low blocking
- ELTEX® PF6812AA is formulated with antioxidants.

Applications

ELTEX® PF6812AA has been developed for use in coextruded blown film structures particularly suitable for food packaging, hygiene or industrial applications. Its unique balance between stiffness, toughness and optical properties makes it the material of choice for the most advanced film compositions with an optimum thickness reduction. Its excellent resistance to slow crack growth also makes ELTEX® PF6812AA valuable for geomembrane applications.

General Information	
Additive	Antioxidation
Features	Low density
	Rigidity, high
	Copolymer
	Optical
	hexene comonomer
	Antioxidation
	Workability, good
	Good cracking resistance
	Good creep resistance
	Compliance of Food Exposure
Uses	Blown Film
	Geo Membranes
	Hygiene
	Films
	Industrial application
	Food packaging
RoHS Compliance	Contact manufacturer
Forms	Particle
Processing Method	Blow film
	Co-extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.932	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.3	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	μm	
Tensile Modulus			ISO 1184
1% secant, MD: 25 μm, blown film	350	MPa	ISO 1184
1% secant, TD: 25 μm, blown film	410	MPa	ISO 1184
Tensile Stress			ISO 1184
MD: Yield, 25 μm, blown film	17.0	MPa	ISO 1184
TD: Yield, 25 μm, blown film	19.0	MPa	ISO 1184
MD: Broken, 25 μm, blown film	60.0	MPa	ISO 1184
TD: Broken, 25 μm, blown film	55.0	MPa	ISO 1184
Tensile Elongation			ISO 1184
MD: Broken, 25 μm, blown film	640	%	ISO 1184
TD: Broken, 25 μm, blown film	770	%	ISO 1184
Dart Drop Impact (25 μm, Blown Film)	120	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 25 μm, blown film	70	g	ASTM D1922
TD: 25 μm, blown film	520	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 μm, Blown Film)	65		ASTM D2457
Haze (25.0 μm, Blown Film)	9.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 230	°C	

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